FLOATING BALL VALVE

Series EB – Bolted Body
Series ES – Screwed Body

BMD'S floating ball valve contains the Progressive Seal Technology that introduces 4 Contoured Front Sealing Faces and 4 Flat Backside Sealing Faces that dramatically improve low and high pressure bubble tight sealing in floating ball valve applications. The dynamically energized seat is designed to be self relieving on the upstream side reducing operating torques.



EB SERIES



ES SERIES

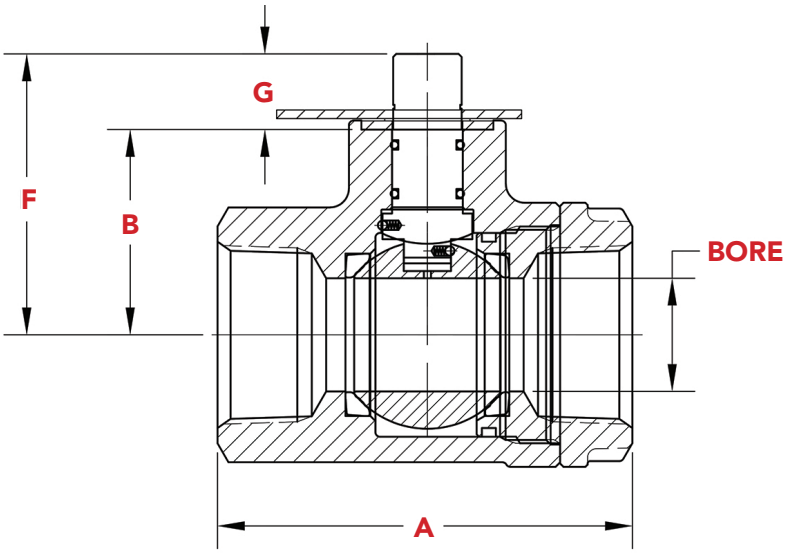
FEATURES

- **Progressive Seal Technology ™**
  Evolutionary Seat Design with Enhanced Ball to Seat Interface
  Patent No. US 10,801,626 B2 / International DM/212755/MX64197
- **Forged Bodies and Adapters**
- **Designed and tested to exceed ASME B16.34**
- **Optimized Stem Shaft Drivetrain System**
- **Up to CLASS 1500 ANSI Rating**

VALVE STANDARDS & MATERIALS

Pipe Thread:
• ANSI B1.20.1 / API-5B
Valve Bore:
• API 6D/608
Valve Butt-weld Ends/
Socket Weld Ends:
• ASME B16.11
Pressure Tests:
• API 6D/API 598/ASME B16.34
Fire Safe Design:
• API 607
NACE Compliance:
• NACE MR-01-75 / ISO 15156
Quality System:
• ISO 9001-2015
Fugitive Emission Design:
• ISO 15848-1/API/ANSI/ISA S 93.00.01
Markings:
• MSS - SP - 25 / ASME B16.34

SERIES ES BALL VALVE DIMENSIONS



DIMENSIONS

VALVE	SERIES ES BALL VALVE			
Size (in)	1FP 6000	2RP 2000	2RP 3000	2FP 6000
A	4.25	5.50	5.50	5.75
B	1.78	2.72	2.72	2.72
C	.73	.91	.91	.91
D	.465	.636	.636	.636
E	1.55	1.75	1.75	1.75
F	2.72	3.73	3.73	3.73
G	.945	1.05	1.05	1.05
H	6.75	9.5	9.5	9.5
J	.25	.3125	.3125	.3125
K	1.75	2.00	2.00	2.00
BORE	1.00	1.50	1.50	1.50

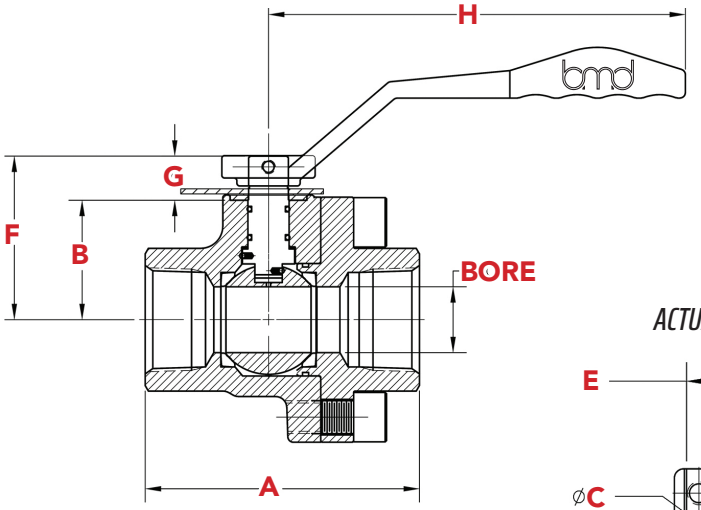
WEIGHT

VALVE	SERIES ES BALL VALVE			
WEIGHT (lbs).	1FP 6000	2RP 2000	2RP 3000	2FP 6000
VALVE	5.25	11.0	11.0	16.0
HANDLE	1.1	1.6	1.6	1.6

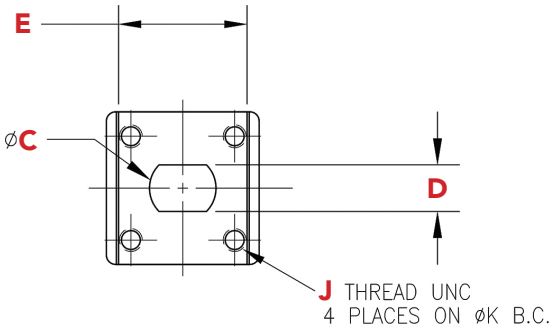
CV VALUES

VALVE	SERIES ES BALL VALVE			
	1FP 6000	2RP 2000	2RP 3000	2FP 6000
CV	60	125	125	125

SERIES EB BALL VALVE DIMENSIONS



ACTUATOR MOUNTING DETAILS



DIMENSIONS

VALVE	SERIES EB BALL VALVE							
Size (in)	2RP 3000	2RP 6000	2FP 3000	2FP 6000	3FP 2000	3FP 3000	4FP 2000	4FP 3000
A	5.75	6.25	6.25	6.75	8.5	8.5	11.25	11.25
B	2.72	2.72	3.25	3.25	4.48	4.48	5.33	5.33
C	.91	.91	.91	.91	1.360	1.360	1.475	1.475
D	.636	.636	.636	.636	.875	.875	.950	.950
E	1.75	1.75	1.75	1.75	2.375	2.375	2.75	2.75
F	3.73	3.73	4.26	4.26	6.12	6.12	7.03	7.03
G	1.05	1.05	1.05	1.05	1.64	1.64	1.70	1.70
H	9.5	9.5	9.5	9.5	16	16	22	22
J	.3125	.3125	.3125	.3125	.375	.375	.5	.5
K	2.00	2.00	2.00	2.00	2.75	2.75	3.00	3.00
BORE	1.50	1.50	2.00	2.00	3.00	3.00	4.00	4.00

WEIGHT

VALVE	SERIES EB BALL VALVE							
WEIGHT (lbs).	2RP 3000	2RP 6000	2FP 3000	2FP 6000	3FP 2000	3FP 3000	4FP 2000	4FP 3000
VALVE	15.5	19	23	30	52	60	92	102
HANDLE	1.6	1.6	1.6	1.6	5.0	5.0	8.0.	8.0

CV VALUES

VALVE	SERIES EB BALL VALVE							
	2RP 3000	2RP 6000	2FP 3000	2FP 6000	3FP 2000	3FP 3000	4FP 2000	4FP 3000
CV	125	125	360	360	996	996	1893	1893

HOW TO ORDER

EXAMPLE MODEL NO. ***ES-23RT1SNHL***

ES SERIES THREADED BODY, 2" NOMINAL PIPE SIZE, 3000 WORKING PRESSURE, REDUCED PORT, THREADED END CONNECTION, STANDARD A105N/A350 LF2 BODY, 316SS NACE BALL AND STEM, NYLON (NYL11) SEAT, HNBR SEAL, AND LEVER OPERATOR

ES - 2 3 R T 1 S N H L

SERIES

SERIES
ES - Threaded Body **EB** - Bolted Body

NOMINAL PIPE SIZE
1 - 1" **2** - 2" **3** - 3" **4** - 4"

VALVE WORKING PRESSURE
2 - 2000 **3**- 3000 **6** - 6000

PORT SIZE
F - Full Port **R** - Reduced Port

END CONNECTION
T - Threaded **S** - Socketweld **M** - Socket/Thrd

BODY MATERIAL
1 - A105N/A350 LF2

BALL/STEM MATERIAL
C - CS 1 mil ENP Ball /Zinc stem Non NACE **S**- 316SS NACE

SEAT MATERIAL
N - Nylon (NYL11) **D** - Delrin **T** - RTFM **P** - Peek

SEAL MATERIAL
H - HNBR **V** - Viton **L** - LT HNBR **LV** - LT Viton

OPERATOR
L - Lever **B** - Bare

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